```
$%^STN;HighlightOn=  ***;HighlightOff=***  ;

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PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2


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 NEWS  1           Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2           "Ask CAS" for self-help around the clock
 NEWS  3  FEB 27   New STN AnaVist pricing effective March 1, 2006
 NEWS  4  APR 04   STN AnaVist $500 visualization usage credit offered
 NEWS  5  MAY 10   CA/CAplus enhanced with 1900-1906 U.S. patent records
 NEWS  6  MAY 11   KOREAPAT updates resume
 NEWS  7  MAY 19   Derwent World Patents Index to be reloaded and enhanced
 NEWS  8  MAY 30   IPC 8 Rolled-up Core codes added to CA/CAplus and
                   USPATFULL/USPAT2
 NEWS  9  MAY 30   The F-Term thesaurus is now available in CA/CAplus
 NEWS 10  JUN 02   The first reclassification of IPC codes now complete in
                   INPADOC
 NEWS 11  JUN 26   TULSA/TULSA2 reloaded and enhanced with new search and
                   and display fields
 NEWS 12  JUN 28   Price changes in full-text patent databases EPFULL and PCTFULL

 NEWS EXPRESS  JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

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 NEWS LOGIN    Welcome Banner and News Items
 NEWS IPC8     For general information regarding STN implementation of IPC 8
 NEWS X25      X.25 communication option no longer available

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  *   Eastern Daylight Time.                                           *
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* * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 08:38:26 ON 05 JUL 2006

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.21       0.21

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STRUCTURE FILE UPDATES: 4 JUL 2006 HIGHEST RN 890521-76-3
DICTIONARY FILE UPDATES: 4 JUL 2006 HIGHEST RN 890521-76-3

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

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conducting SmartSELECT searches.

```
**********************************************************************
*                                                                    *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005.  A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*                                                                    *
**********************************************************************
```

Structure search iteration limits have been increased. See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

```
=>
Uploading c:\program files\stnexp\queries\10755147fullstructure.str

L1      STRUCTURE UPLOADED

=>
Uploading c:\program files\stnexp\queries\10755147halfstructure.str

L2      STRUCTURE UPLOADED

=> s l1 sss full
FULL SEARCH INITIATED 08:39:30 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      769 TO ITERATE

100.0% PROCESSED      769 ITERATIONS                          16 ANSWERS
SEARCH TIME: 00.00.01

L3           16 SEA SSS FUL L1

=> s l2 sss full
FULL SEARCH INITIATED 08:39:36 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -     1636 TO ITERATE

100.0% PROCESSED     1636 ITERATIONS                          18 ANSWERS
SEARCH TIME: 00.00.01

L4           18 SEA SSS FUL L2

=> file caplus
COST IN U.S. DOLLARS                        SINCE FILE      TOTAL
                                               ENTRY    SESSION
FULL ESTIMATED COST                           333.88     334.09

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FILE COVERS 1907 - 5 Jul 2006 VOL 145 ISS 2
FILE LAST UPDATED: 4 Jul 2006 (20060704/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

=> s l3
L5 1 L3

=> d all

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:589117 CAPLUS <<LOGINID::20060705>>
DN 141:148178
ED Entered STN: 23 Jul 2004
TI Optical recording medium dye and optical recording medium using thereof
IN Kuo, Chao-Nan; Hu, Mei-Jung
PA Taiwan
SO U.S. Pat. Appl. Publ., 8 pp.
CODEN: USXXCO
DT Patent
LA English
IC ICM G11B007-24
INCL 430270210; 430270200; 430945000; 428064800
CC 74-12 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 2004142278	A1	20040722	US 2004-755147	20040109
PRAI TW 2003-92100471	A	20030110		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 2004142278	ICM	G11B007-24
	INCL	430270210; 430270200; 430945000; 428064800
	IPCI	G11B0007-24 [ICM,7]
	IPCR	G11B0007-24 [I,A]; G11B0007-24 [I,C*]
	NCL	430/270.210
	ECLA	G11B007/247

OS MARPAT 141:148178
GI

/ Structure 1 in file .gra /

AB An optical recording medium dye is disclosed. The optical recording medium dye comprises the following chem. structure I (A, B = H, halogen, nitrogen-contg. group, alkoxyl group; R1,2 = alkyl group, alkenyl group, aralkyl group, alkoxycarbonyl group, alkoxycarboxyl group, alkoxyl group, alkyl hydroxyl group, alkylamino group, alkylcarbamoyl group, alkylsulfamoyl group, alkylalkoxyl group, alkyl halide group, alkylsulfonyl group, alkylcarboxyl group; and X - = an anion).
ST optical recording medium cyanine dye
IT Cyanine dyes
Optical disks
Optical recording materials
(optical recording medium contg. cyanine dye)
IT ***726185-74-6P*** ***726185-78-0P***
RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(optical recording medium contg. cyanine dye)
IT 189189-12-6 ***726185-79-1*** ***726185-81-5***
726185-82-6 ***726185-84-8*** ***726185-86-0***
726185-88-2 ***726185-90-6***
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(optical recording medium contg. cyanine dye)
IT 17084-13-8, Potassium hexafluorophosphate 726185-72-4 726185-75-7
726185-76-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(optical recording medium contg. cyanine dye)

=> s l4
L6 2 L4

=> d all 1-2

L6 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:589117 CAPLUS <<LOGINID::20060705>>
DN 141:148178
ED Entered STN: 23 Jul 2004
TI Optical recording medium dye and optical recording medium using thereof
IN Kuo, Chao-Nan; Hu, Mei-Jung
PA Taiwan
SO U.S. Pat. Appl. Publ., 8 pp.
CODEN: USXXCO
DT Patent
LA English
IC ICM G11B007-24
INCL 430270210; 430270200; 430945000; 428064800
CC 74-12 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004142278	A1	20040722	US 2004-755147	20040109
PRAI TW 2003-92100471	A	20030110		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 2004142278	ICM	G11B007-24
	INCL	430270210; 430270200; 430945000; 428064800
	IPCI	G11B0007-24 [ICM,7]
	IPCR	G11B0007-24 [I,A]; G11B0007-24 [I,C*]
	NCL	430/270.210
	ECLA	G11B007/247

OS MARPAT 141:148178
GI

/ Structure 2 in file .gra /

AB An optical recording medium dye is disclosed. The optical recording medium dye comprises the following chem. structure I (A, B = H, halogen, nitrogen-contg. group, alkoxyl group; R1,2 = alkyl group, alkenyl group, aralkyl group, alkoxycarbonyl group, alkoxycarboxyl group, alkoxyl group, alkyl hydroxyl group, alkylamino group, alkylcarbamoyl group, alkylsulfamoyl group, alkylalkoxyl group, alkyl halide group, alkylsulfonyl group, alkylcarboxyl group; and X - = an anion).
ST optical recording medium cyanine dye
IT Cyanine dyes
Optical disks
Optical recording materials
(optical recording medium contg. cyanine dye)
IT ***726185-74-6P*** ***726185-78-0P***
RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(optical recording medium contg. cyanine dye)
IT 189189-12-6 ***726185-79-1*** ***726185-81-5***
726185-82-6 ***726185-84-8*** ***726185-86-0***

726185-88-2 ***726185-90-6***
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(optical recording medium contg. cyanine dye)
IT 17084-13-8, Potassium hexafluorophosphate 726185-72-4 726185-75-7 726185-76-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(optical recording medium contg. cyanine dye)

L6 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2000:672943 CAPLUS <<LOGINID::20060705>>
DN 133:268230
ED Entered STN: 26 Sep 2000
TI Benzoindolenine-type cyanine dyes for optical recording materials
IN Usami, Takashi; Asanuma, Naoki; Yamakawa, Kazuyoshi
PA Fuji Photo Film Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C09B023-00
ICS B41M005-26; G11B007-24
CC 41-11 (Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic Sensitizers)
Section cross-reference(s): 27, 74
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2000265076	A2	20000926	JP 1999-65966	19990312
PRAI JP 1999-65966		19990312		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2000265076	ICM	C09B023-00
	ICS	B41M005-26; G11B007-24
	IPCI	C09B0023-00 [ICM,7]; B41M0005-26 [ICS,7]; G11B0007-24 [ICS,7]
	IPCR	C09B0023-00 [I,C*]; C09B0023-08 [I,A]
	ECLA	C09B023/08B

OS MARPAT 133:268230
GI

/ Structure 3 in file .gra /

AB The dyes I [R1 = (C1-12 alkoxy-substituted) C1-12 alkyl; R2, R3 = H, C1-12 alkyl, C1-12 alkoxy, halo; R4 = H, C1-12 alkyl, halo, pyridyl; X- = Cl-, Br-, I-, ClO4-, PF6-, BF4-, CF3SO3-, p-toluenesulfonate, naphthalenedisulfonate] are esp. useful for manuf. of laser optical disks with good recording characteristics. Thus, I (R1 = n-Bu; R2, R4 = H; R3 = OMe; X- = ClO4-) was prepd. and used for manuf. of optical disks showing good C/N ratio and high sensitivity.
ST laser optical disk cyanine dye; benzoindolenine cyanine dye optical recording material
IT Cyanine dyes
Optical recording materials
(benzoindolenine-type cyanine dyes for optical recording materials)
IT Optical disks
(laser; benzoindolenine-type cyanine dyes for optical recording materials)
IT 297172-63-5P ***297172-65-7P***
RL: DEV (Device component use); IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(benzoindolenine-type cyanine dyes for optical recording materials)
IT 260058-68-2P 297172-66-8P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(benzoindolenine-type cyanine dyes for optical recording materials)
IT 5111-65-9, 2-Bromo-6-methoxynaphthalene 5350-57-2, Benzophenone hydrazone
RL: RCT (Reactant); RACT (Reactant or reagent)

(benzoindolenine-type cyanine dyes for optical recording materials)

```
=> d his

     (FILE 'HOME' ENTERED AT 08:38:26 ON 05 JUL 2006)

     FILE 'REGISTRY' ENTERED AT 08:38:40 ON 05 JUL 2006
L1             STRUCTURE UPLOADED
L2             STRUCTURE UPLOADED
L3          16 S L1 SSS FULL
L4          18 S L2 SSS FULL

     FILE 'CAPLUS' ENTERED AT 08:39:50 ON 05 JUL 2006
L5           1 S L3
L6           2 S L4

=> log y
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     9.67     343.76

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                    -2.25      -2.25

STN INTERNATIONAL LOGOFF AT 08:40:27 ON 05 JUL 2006
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$%^STN;HighlightOn=  ***;HighlightOff=***  ;

Connecting via Winsock to STN


Welcome to STN International!  Enter x:x

LOGINID:ssspta1756mja

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2


* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

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 NEWS  6  MAY 11   KOREAPAT updates resume
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 NEWS 10  JUN 02   The first reclassification of IPC codes now complete in
                   INPADOC
 NEWS 11  JUN 26   TULSA/TULSA2 reloaded and enhanced with new search and
                   and display fields
 NEWS 12  JUN 28   Price changes in full-text patent databases EPFULL and PCTFULL

 NEWS EXPRESS  JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

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 NEWS X25      X.25 communication option no longer available

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    ********************************************************************
  *   Due to scheduled maintenance of STN on Sunday, July 9, 2006,     *
  *   some databases may not be available until 04:00 (4:00 AM)        *
  *   Eastern Daylight Time.                                           *
    ********************************************************************

* * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 08:21:49 ON 05 JUL 2006

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.21       0.21

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STRUCTURE FILE UPDATES: 4 JUL 2006 HIGHEST RN 890521-76-3
DICTIONARY FILE UPDATES: 4 JUL 2006 HIGHEST RN 890521-76-3

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  conducting SmartSELECT searches.

```
**********************************************************************
*                                                                    *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005.  A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*                                                                    *
**********************************************************************
```

Structure search iteration limits have been increased. See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading c:\program files\stnexp\queries\10755147fullstructure.str

L1   STRUCTURE UPLOADED

=>
Uploading c:\program files\stnexp\queries\10755147halfstructure.str

L2   STRUCTURE UPLOADED

=> file caplus
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                               ENTRY   SESSION
FULL ESTIMATED COST   0.44   0.65

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FILE COVERS 1907 - 5 Jul 2006 VOL 145 ISS 2
FILE LAST UPDATED: 4 Jul 2006 (20060704/ED)

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http://www.cas.org/infopolicy.html

=> s us 2004-0142278/pn
L3   1 US 2004-0142278/PN

(US2004142278/PN)

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=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       2.41       3.06

FILE 'REGISTRY' ENTERED AT 08:23:22 ON 05 JUL 2006
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STRUCTURE FILE UPDATES:    4 JUL 2006  HIGHEST RN 890521-76-3
DICTIONARY FILE UPDATES:   4 JUL 2006  HIGHEST RN 890521-76-3

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*********************************************************************
*                                                                   *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005.  A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*                                                                   *
*********************************************************************

Structure search iteration limits have been increased.  See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=> tra rn l1
'L1' HAS NO ANSWERS

=> tra rn l3
L4          TRANSFER L3 1- RN :      14 TERMS
L5          14 L4

=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.44      15.25

FILE 'CAPLUS' ENTERED AT 08:23:42 ON 05 JUL 2006
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FILE COVERS 1907 - 5 Jul 2006  VOL 145 ISS 2
FILE LAST UPDATED: 4 Jul 2006  (20060704/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

=> s l5
L6          738 L5

=> s (optical or laser or information)(5a)(med? or disk? or disc? or card?)
         889435 OPTICAL
             19 OPTICALS
         889443 OPTICAL
                  (OPTICAL OR OPTICALS)
         526858 LASER
         162993 LASERS
         540405 LASER
                  (LASER OR LASERS)
         411012 INFORMATION
           3065 INFORMATIONS
         413456 INFORMATION
                  (INFORMATION OR INFORMATIONS)
        1920654 MED?
         154914 DISK?
        2995576 DISC?
         260343 CARD?
L7        87270 (OPTICAL OR LASER OR INFORMATION)(5A)(MED? OR DISK? OR DISC? OR
                CARD?)

=> s l6 and l7
L8             23 L6 AND L7

=> d all 1-23

L8   ANSWER 1 OF 23  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   2006:511020  CAPLUS <<LOGINID::20060705>>
DN   145:17848
ED   Entered STN:  01 Jun 2006
TI   Cyanine compound, optical recording material utilizing the compound, and
       ***optical***   recording   ***medium***   for high-speed recording
IN   Okada, Mitsuhiro; Yano, Toru; Shigeno, Koichi
PA   Asahi Denka Co., Ltd., Japan
SO   PCT Int. Appl., 29 pp.
     CODEN: PIXXD2
DT   Patent
LA   Japanese
CC   74-12 (Radiation Chemistry, Photochemistry, and Photographic and Other
     Reprographic Processes)
     Section cross-reference(s): 28
FAN.CNT 1
     PATENT NO.          KIND   DATE        APPLICATION NO.         DATE
     ---------------     ----   --------    --------------------    --------
PI   WO 2006057113        A1    20060601    WO 2005-JP18852         20051013
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
             CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
             GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KM, KP, KR, KZ, LC,
             LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA,
             NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK,
             SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU,
             ZA, ZM, ZW
         RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
             IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
             CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
             GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM
     JP 2006151823         A2    20060615    JP 2004-340485          20041125
PRAI JP 2004-340485        A     20041125
CLASS
 PATENT NO.       CLASS  PATENT FAMILY CLASSIFICATION CODES
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 WO 2006057113   IPCI   C07D0413-06 [I,A]; C07D0413-00 [I,C*]; C07D0417-06
                       [I,A]; C07D0417-00 [I,C*]; B41M0005-26 [I,A];
                       G11B0007-244 [I,A]; G11B0007-24 [I,C*]
 JP 2006151823   IPCI   C07D0413-06 [I,A]; C07D0413-00 [I,C*]; C07D0417-06
                       [I,A]; C07D0417-00 [I,C*]; C09B0023-00 [I,A];
                       G11B0007-244 [I,A]; G11B0007-24 [I,C*]; B41M0005-26
                       [I,A]
                 FTERM  2H111/EA03; 2H111/EA22; 2H111/EA25; 2H111/EA33;
                       2H111/FB43; 4C063/AA01; 4C063/BB03; 4C063/CC52;
                       4C063/CC62; 4C063/DD08; 4C063/EE10; 4H056/CA01;
                       4H056/CC02; 4H056/CC08; 4H056/CE03; 4H056/CE06;
                       4H056/DD02; 4H056/DD19; 4H056/DD23; 4H056/FA03;
                       4H056/FA05; 4H056/FA06; 5D029/JA04
GI


/ Structure 1 in file .gra /


AB   A cyanine compd. of the following general formula I (A, B = benzene ring,
     naphthalene ring; R1, R2 = C1-4-alkyl, benzyl; X = O, S, NY; Y, Y1, Y2 =
     H, C1-30-org. group; Z = H, halo, cyano group; Anm- = m-valent anion; m =
     1, 2; p = coeff. for maintaining charge neutrality) that is suitable to an
     optical recording material for use as in a recording layer of an
       ***optical***   recording   ***medium***   capable of   ***laser***   beam
     recording and reprodn.  This cyanine compd. exhibits appropriate pyrolytic
     behavior for realizing esp. sensitivity capable of coping with high-speed
     recording.
ST   cyanine compd   ***optical***   recording material rewritable   ***disk***
IT   Erasable   ***optical***     ***disks***
        (DVD-R; cyanine compd.,   ***optical***   recording material utilizing
        the compd., and   ***optical***   recording   ***medium***   for
        high-speed recording)
IT   Optical recording materials
        (cyanine compd., optical recording material utilizing the compd., and
          ***optical***   recording   ***medium***   for high-speed recording)
IT   888224-57-5P   888224-60-0P
     RL: DEV (Device component use); PRP (Properties); SPN (Synthetic
     preparation); TEM (Technical or engineered material use); PREP
     (Preparation); USES (Uses)
        (prepn. of cyanine compd. as optical recording material for DVD-R
        recording medium for high-speed recording)
IT   204774-31-2P
     RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation);
     RACT (Reactant or reagent)
        (prepn. of cyanine compd. as optical recording material for DVD-R
        recording medium for high-speed recording)
IT   120-75-2   778-28-9   5260-37-7   ***17084-13-8***  , Potassium
     hexafluorophosphate   888224-62-2
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (prepn. of cyanine compd. as optical recording material for DVD-R
        recording medium for high-speed recording)
RE.CNT  7     THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Asahi Denka Kogyo Kabushiki Kaisha; CN 1438639 A 2003 CAPLUS
(2) Asahi Denka Kogyo Kabushiki Kaisha; KR 2003068414 A 2003
(3) Asahi Denka Kogyo Kabushiki Kaisha; JP 2003231359 A 2003 CAPLUS
(4) Asahi Denka Kogyo Kabushiki Kaisha; JP 3659922 B2 2003 CAPLUS
(5) Mason, S; Organic Letters 2002, V4(24), P4261 CAPLUS
(6) Raitoku Kagi Kofun Yugen Koshi; JP 2001192579 A 2001 CAPLUS
(7) Ricoh Co Ltd; JP 2004216817 A 2004 CAPLUS

L8   ANSWER 2 OF 23  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   2006:411814  CAPLUS <<LOGINID::20060705>>
DN   144:442708
ED   Entered STN:  05 May 2006
TI   Indolium compounds and optical recording materials
IN   Yano, Toru; Shigeno, Koichi
PA   Asahi Denka Co., Ltd., Japan
SO   PCT Int. Appl., 39 pp.
     CODEN: PIXXD2
DT   Patent
```

LA Japanese
CC 74-12 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2006046374	A1	20060504	WO 2005-JP17376	20050921
JP 2006124542	A2	20060518	JP 2004-315678	20041029
PRAI JP 2004-315678	A	20041029		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2006046374	IPCI	C09B0023-00 [I,A]; B41M0005-26 [I,A]; G11B0007-244 [I,A]; G11B0007-24 [I,C*]
JP 2006124542	IPCI	C09B0023-00 [I,A]; G11B0007-244 [I,A]; G11B0007-24 [I,C*]
	FTERM	4H056/CA02; 4H056/CC02; 4H056/CE02; 4H056/CE03; 4H056/CE06; 4H056/CE07; 4H056/DD03; 5D029/JA04; 5D029/JB21

GI

/ Structure 2 in file .gra /

AB Indolium compds. represented by the general formula I (A = benzene, naphthalene; Z = C1-8-alkyl; R1, R2 = C1-30-org. group, II, III; X = C1-8-alkyl; Y1 = H, C1-30-org. group; n = 0-4; q = 0-4; Anm- = m-valent anion; m = 1, 2; p = coeff. for keeping the elec. charge neutral) which exhibit thermal decompn. behavior more suitable for the optical recording material to be used in ***optical*** recording layers of ***optical*** recording ***media*** for high-speed recording. Indolium compds. are synthesized.

ST indolium compd synthesis optical recording material

IT Optical recording materials
(indolium compds. suitable for optical recording materials)

IT 884862-94-6P 884862-96-8P 884862-98-0P 884863-00-7P 884863-01-8P 884863-03-0P 884863-10-9P
RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(indolium compds. suitable for optical recording materials)

IT 120-21-8, 4-Diethylaminobenzaldehyde 7791-07-3, Sodium perchlorate monohydrate 13755-29-8, Sodium tetrafluoroborate ***17084-13-8*** , Potassium hexafluorophosphate 17754-90-4, 4-Diethylaminosalicylaldehyde 33985-71-6 843673-97-2 884863-04-1 884863-05-2 884863-06-3 884863-07-4 884863-08-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of indolium compds. suitable for optical recording materials)

RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Asahi Denka Kogyo Kabushiki Kaisha; JP 11-170695 A 1999 CAPLUS
(2) Asahi Denka Kogyo Kabushiki Kaisha; CN 1438639 A 2003 CAPLUS
(3) Asahi Denka Kogyo Kabushiki Kaisha; JP 2003231359 A 2003 CAPLUS
(4) Industrial Technology Research Institute; DE 10249654 A 2003 CAPLUS
(5) Industrial Technology Research Institute; US 2003202458 A1 2003
(6) Industrial Technology Research Institute; US 2003203148 A1 2003
(7) Industrial Technology Research Institute; JP 2003313447 A 2003 CAPLUS
(8) Industrial Technology Research Institute; JP 2003321450 A 2003 CAPLUS

(9) Industrial Technology Research Institute; TW 589349 B 2003 CAPLUS
(10) Industrial Technology Research Institute; TW 593564 B 2003 CAPLUS
(11) Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo; EP 1170339 A2 2002 CAPLUS
(12) Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo; JP 2002206061 A 2002 CAPLUS
(13) Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo; US 200228918 A1 2002
(14) Matsushita Electric Industrial Co Ltd; JP 11-34489 A 1999 CAPLUS
(15) Samsung Electronics Co Ltd; KR 00105735 A 2001
(16) Samsung Electronics Co Ltd; EP 1156084 A2 2001 CAPLUS
(17) Samsung Electronics Co Ltd; JP 2001342366 A 2001 CAPLUS
(18) Samsung Electronics Co Ltd; US 20021774 A1 2001

L8 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2006:343129 CAPLUS <<LOGINID::20060705>>
DN 144:392744
ED Entered STN: 14 Apr 2006
TI Cyanine compounds for optical recording materials
IN Shigeno, Koichi; Yano, Toru
PA Asahi Denka Co., Ltd., Japan
SO PCT Int. Appl., 25 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
CC 41-8 (Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic Sensitizers)
Section cross-reference(s): 74
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2006038464	A1	20060413	WO 2005-JP17375	20050921
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
JP 2006104387	A2	20060420	JP 2004-295111	20041007
PRAI JP 2004-295111	A	20041007		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2006038464	IPCI	C09B0023-00 [I,A]; B41M0005-26 [I,A]; G11B0007-244 [I,A]; G11B0007-24 [I,C*]; C07D0209-60 [N,A]; C07D0209-00 [N,C*]
	ECLA	C09B023/06
JP 2006104387	IPCI	C09B0023-00 [I,A]; G11B0007-244 [I,A]; G11B0007-24 [I,C*]; B41M0005-26 [I,A]
	FTERM	2H111/EA03; 2H111/EA22; 2H111/EA25; 2H111/EA33; 2H111/FB43; 4H056/CA03; 4H056/CC08; 4H056/CE03; 4H056/CE07; 4H056/DD03; 4H056/FA05; 5D029/JA04

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Cyanine compds. I exhibit decompn. behavior suitable for the optical recording material to be used in ***optical*** recording layers of ***optical*** recording ***media*** for high-speed recording, wherein A, B = optionally substituted benzene or naphthalene ring; X = O, S, Se, CR3R4, or NY; R1 or R2 = II or III then R2 or R1 = C1-30 org. group; R3, R4 = C1-30 org. group; Y = H or C1-30 org. group; Y1 or Y2 = IV then Y2 or Y1 = H or C1-30 org. group; Z = H, halogeno, or cyano; Anm- =

m-valent anion; m = 1 or 2; and p = coeff. capable of keeping the elec. charge neutral. Thus, compd. V 0.003, pyridine 0.06, and acetic anhydride 0.0042 mol were stirred, 0.003 mol compd. VI p-toluenesulfonate was added therein and stirred at 45.degree. for 2.5 h, 0.0045 mol potassium hexafluorophosphate and 10 g methanol were added therein and stirred at 55.degree. for 1 h to give a compd. VII with .lambda.max 596 nm, m.p. 226.5.degree., absorption coeff. 1.26 .times. 105 and heat decompn. temp. 234.degree..

ST cyanine compd optical recording material; benzindolium deriv cyanine compd

IT Dyes
Optical recording materials
(cyanine compds. for optical recording materials)

IT Unsaturated compounds
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(cyanines; cyanine compds. for optical recording materials)

IT 882680-28-6P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(cyanine compds. for optical recording materials)

IT ***17084-13-8*** , Potassium hexafluorophosphate 882680-25-3
882680-26-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyanine compds. for optical recording materials)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE
(1) Asahi Denka Kogyo Kabushiki Kaisha; CN 1438639 A 2003 CAPLUS
(2) Asahi Denka Kogyo Kabushiki Kaisha; JP 2003231359 A 2003 CAPLUS
(3) Taiyo Yuden Co Ltd; JP 2004195765 A 2004 CAPLUS
(4) Tamura Kaken Kabushiki Kaisha; JP 2003171571 A 2003 CAPLUS

L8 ANSWER 4 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2006:104566 CAPLUS <<LOGINID::20060705>>
DN 144:160350
ED Entered STN: 03 Feb 2006
TI Optical recording material with specified cyanine compound for high speed recording and ***optical*** recording ***medium***
IN Yano, Toru; Shigeno, Koichi
PA Asahi Denka Co., Ltd., Japan
SO PCT Int. Appl., 38 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
IC ICM B41M005-26
ICS G11B007-24
CC 74-12 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 41

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2006011306	A1	20060202	WO 2005-JP10391	20050607

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRAI JP 2004-222239 A 20040729

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2006011306	ICM	B41M005-26
	ICS	G11B007-24
	IPCI	B41M0005-26 [ICM,7]; G11B0007-24 [ICS,7]

GI

/ Structure 3 in file .gra /

AB An optical recording material for use in an optical recording layer in an ***optical*** recording ***medium*** comprising the ***optical*** recording layer provided on a substrate. The optical recording material is characterized by comprising a cyanine compd. represented by general formula I (ring A, ring B = benzene ring, naphthalene ring; X = O, S, Se, CR3R4, NY; R1, R2 = II, III, C1-30-org. group; R3, R4 = C1-30-org. group; Y, Y1, Y2 = H, C1-30-org. group; Z = H, halogen, cyano; Anm- = m-valent anion; m = 1, 2; p = coeff. for maintaining the charge in a neutral state; E = C; G = C, O, N; bonding between E and G is double bond or triple bond; x, y, z = 0, 1; R5 = H, halo, C1-4-alkyl, C1-4-alkoxy; R6, R7, R8 = H, halo, C1-4-alkyl; E' = C; G' = C, O, N; E' together with G' form 5-membered ring, 6-membered ring, naphthalene ring, etc.).

ST ***optical*** recording material rewritable ***disk*** cyanine compd

IT Cyanine dyes
Erasable ***optical*** ***disks***
Optical recording materials
(***optical*** recording material with specified cyanine compd. and ***optical*** recording ***medium***)

IT 1521-51-3 1971-46-6 4784-77-4, 4-Bromo-2-butene ***17084-13-8*** , Potassium hexafluorophosphate 20782-91-6 34902-05-1, Bromomethylnaphthalene 53045-71-9 843673-93-8 873868-17-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of cyanine compd. for optical recording material for high speed recording)

IT 873868-13-4P 873868-14-5P 873868-15-6P 873868-18-9P 873868-19-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of cyanine compd. for optical recording material for high speed recording)

IT 872005-96-4P 873868-02-1P 873868-04-3P 873868-06-5P 873868-08-7P 873868-10-1P 873868-12-3P
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(prepn. of cyanine compd. for optical recording material for high speed recording)

RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE
(1) Asahi Denka Kogyo Kabushiki Kaisha; JP 200252829 A 2002
(2) Asahi Denka Kogyo Kabushiki Kaisha; TW 591646 A 2002 CAPLUS
(3) Asahi Denka Kogyo Kabushiki Kaisha; CN 1438639 A 2003 CAPLUS
(4) Asahi Denka Kogyo Kabushiki Kaisha; JP 2003231359 A 2003 CAPLUS
(5) Asahi Denka Kogyo Kabushiki Kaisha; JP 2003335061 A 2003 CAPLUS
(6) Asahi Denka Kogyo Kabushiki Kaisha; KR 200368414 A 2003
(7) Asahi Denka Kogyo Kabushiki Kaisha; JP 200453799 A 2004
(8) Asahi Denka Kogyo Kabushiki Kaisha; EP 1505125 A1 2005 CAPLUS
(9) Asahi Denka Kogyo Kabushiki Kaisha; WO 200514722 A1 2005
(10) Asahi Denka Kogyo Kabushiki Kaisha; US 200531993 A1 2005
(11) Asahi Denka Kogyo Kabushiki Kaisha; JP 200553875 A 2005
(12) Eastman Kodak Co; JP 02-124501 A 1990 CAPLUS
(13) Eastman Kodak Co; EP 358439 A1 1990 CAPLUS
(14) Eastman Kodak Co; US 4889410 A 1990 CAPLUS
(15) Sony Corp; EP 1528548 A2 2005 CAPLUS
(16) Sony Corp; JP 2005132055 A 2005 CAPLUS
(17) Sony Corp; US 200594548 A1 2005

L8 ANSWER 5 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2005:141164 CAPLUS <<LOGINID::20060705>>
DN 142:228814
ED Entered STN: 18 Feb 2005
TI Cyanine compounds for ***optical*** recording materials and ***optical*** recording ***media***
IN Yano, Toru; Shigeno, Koichi; Okada, Mitsuhiro
PA Asahi Denka Co., Ltd., Japan
SO PCT Int. Appl., 30 pp.

CODEN: PIXXD2
DT Patent
LA Japanese
IC ICM C09B023-00
ICS C07D209-60; B41M005-26; G11B007-24
CC 74-12 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 41
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2005014722	A1	20050217	WO 2004-JP10648	20040727
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2005054150	A2	20050303	JP 2003-289166	20030807
JP 3708094	B2	20051019		
EP 1652892	A1	20060503	EP 2004-770959	20040727
R: AT, DE, FR, GB, LU				
PRAI JP 2003-289166	A	20030807		
WO 2004-JP10648	W	20040727		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2005014722	ICM	C09B023-00
	ICS	C07D209-60; B41M005-26; G11B007-24
	IPCI	C09B0023-00 [ICM,7]; C07D0209-60 [ICS,7]; C07D0209-00 [ICS,7,C*]; B41M0005-26 [ICS,7]; G11B0007-24 [ICS,7]
	IPCR	B41M0005-40 [N,A]; B41M0005-40 [N,C*]; C07D0209-00 [I,C*]; C07D0209-60 [I,A]; C09B0023-00 [I,C*]; C09B0023-06 [I,A]
	ECLA	C07D209/60; C09B023/06
JP 2005054150	IPCI	C09B0023-00 [ICM,7]; B41M0005-26 [ICS,7]; C07D0209-60 [ICS,7]; C07D0209-00 [ICS,7,C*]; G11B0007-24 [ICS,7]
	IPCR	B41M0005-40 [N,A]; B41M0005-40 [N,C*]; C07D0209-00 [I,C*]; C07D0209-60 [I,A]; C09B0023-00 [I,C*]; C09B0023-06 [I,A]
	FTERM	2H111/EA03; 2H111/EA22; 2H111/FB43; 4C204/BB05; 4C204/CB13; 4C204/DB08; 4C204/DB13; 4C204/EB10; 4C204/FB03; 4C204/GB11; 4H056/CA01; 4H056/CC02; 4H056/CC08; 4H056/CE03; 4H056/CE06; 4H056/DD03; 5D029/JA04
EP 1652892	IPCI	C09B0023-00 [ICM,7]; C07D0209-60 [ICS,7]; C07D0209-00 [ICS,7,C*]; B41M0005-26 [ICS,7]; G11B0007-24 [ICS,7]
	ECLA	C07D209/60; C09B023/06

OS MARPAT 142:228814
GI

/ Structure 4 in file .gra /

AB The present invention relates novel cyanine compds. I having thermal behavior more favorable for optical recording, ***optical*** recording materials, and ***optical*** recording ***media*** , wherein A, B = (substituted) benzene or naphthalene ring; R1, R2, R3, R4 = benzyl (if adjacent two of R1 to R4 are benzyl, the other groups are C1-4 alkyl or are united to form a 3- to 6-membered ring); Y1, Y2 = independently C1-30 org. group; Anm- = m-valent anion; m = 1 or 2; and p = coeff. keeping the elec. charge neutral. Thus, 158.2 g 2-naphthylhydrazine and 286.0 g 1,1-dibenzylacetone were reacted at 80.degree. for 1 h in the presence of 125 g 35% an aq. hydrochloride soln. to give an indole deriv., 18.7 g of which was mixed with 12.8 g 1-iodo propane and 39.9 g propanol and reacted at 100.degree. for 12 h, 2.71 g the resulting reaction products was

reacted with 2.47 g indole deriv. at 65.degree. for 4 h, and treated with potassium hexafluorophosphate to give a cyanine compd. with thermal decompn. temp. 247.9.degree., which was applied on a titanium compd.-coated polycarbonate to give an ***optical*** recording ***medium*** , showing good ***optical*** recording ***media*** properties.

ST cyanine compd ***optical*** recording material ***media*** ; naphthylhydrazine dibenzylacetone reactant cyanine prepn ***optical*** recording ***medium***

IT Unsaturated compounds
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
(cyanines; prepn. of cyanine compds. for ***optical*** recording materials and ***optical*** recording ***media***)

IT Optical recording materials
(prepn. of cyanine compds. for ***optical*** recording materials and ***optical*** recording ***media***)

IT 843673-87-0P 843673-88-1P 843673-91-6P 843673-96-1P 843673-97-2P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(intermediate in cyanine compd. prepn.; prepn. of cyanine compds. for ***optical*** recording materials and ***optical*** recording ***media***)

IT 843673-90-5P 843673-95-0P 843673-99-4P
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
(prepn. of cyanine compds. for ***optical*** recording materials and ***optical*** recording ***media***)

IT 622-15-1 ***17084-13-8*** , Potassium hexafluorophosphate
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of cyanine compds. for ***optical*** recording materials and ***optical*** recording ***media***)

IT 74-88-4, Iodomethane, reactions 100-39-0, Benzyl bromide 107-08-4, 1-Iodo-propane 2243-57-4 2550-26-7, 4-Phenyl-2-butanone 3506-88-5 52263-26-0, N-Methyl-N-(4-chlorophenyl)hydrazine 839676-64-1 843673-93-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(reactant in cyanine compd. prepn.; prepn. of cyanine compds. for ***optical*** recording materials and ***optical*** recording ***media***)

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Asahi Denka Kogyo Kabushiki Kaisha; CN 1438639 A 2003 CAPLUS
(2) Asahi Denka Kogyo Kabushiki Kaisha; KR 2003068414 A 2003
(3) Asahi Denka Kogyo Kabushiki Kaisha; JP 2003231359 A 2003 CAPLUS
(4) Asahi Denka Kogyo Kabushiki Kaisha; JP 2003335061 A 2003 CAPLUS
(5) Canon Inc; JP 58-21746 A 1983 CAPLUS

L8 ANSWER 6 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:909033 CAPLUS <<LOGINID::20060705>>

DN 142:306506

ED Entered STN: 01 Nov 2004

TI Method and dye for improving the addressing signal of ***optical*** ***disk***

IN Liu, Wenda; Wang, Naizhen; Chen, Wanqun; Lin, Binghuang; Chen, Huizhen; Guo, Xinde

PA Laide Technology Co., Ltd., Peop. Rep. China

SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 24 pp.
CODEN: CNXXEV

DT Patent

LA Chinese

IC ICM G11B007-24
ICS C09B029-42

CC 74-12 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI CN 1466136	A	20040107	CN 2002-140511	20020705
PRAI CN 2002-140511		20020705		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES

CN 1466136	ICM	G11B007-24
	ICS	C09B029-42
	IPCI	G11B0007-24 [ICM,7]; C09B0029-42 [ICS,7]; C09B0029-00 [ICS,7,C*]
	IPCR	C09B0029-00 [I,C*]; C09B0029-42 [I,A]; G11B0007-24 [I,A]; G11B0007-24 [I,C*]

OS MARPAT 142:306506
GI

/ Structure 5 in file .gra /

AB The addressing signal of ***optical*** ***disk*** is improved by formation of a dye layer and a reflective layer on substrate disk. The dye layer contains a metal complex of azo compd. I(R1 = C1-6 alkyl, amino, alkylamino, tolylamino; R2 = H, OH, halogen, alkoxy, C1-6 alkyl; R3 = H, C1-6 alkyl; R4 = H, C1-6 alkyl, halogen; A1 = nitrogen-contg. heterocycle; M = Ni, Co, Cu) and a cyanine dye Q2+CH:CHCHQ1A (A = SbF6-, PF6-, BF4-, ClO4-, CF3SO2-, C2F5SO3-, I-; Q1, Q2 = N-contg. fused heaterocycle). The reflective layer is Au, Ag, Al, or their alloy.
ST azo dye ***optical*** ***disk***
IT Azo dyes
Optical ***disks***
(method and dye for improving the addressing signal of ***optical*** ***disk***)
IT 7429-90-5, Aluminum, uses 7440-22-4, Silver, uses 7440-57-5, Gold, uses 123071-50-1 ***189189-12-6*** 349542-76-3 560132-86-7
RL: DEV (Device component use); USES (Uses)
(method and dye for improving the addressing signal of ***optical*** ***disk***)

L8 ANSWER 7 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:589117 CAPLUS <<LOGINID::20060705>>
DN 141:148178
ED Entered STN: 23 Jul 2004
TI ***Optical*** recording ***medium*** dye and ***optical*** recording ***medium*** using thereof
IN Kuo, Chao-Nan; Hu, Mei-Jung
PA Taiwan
SO U.S. Pat. Appl. Publ., 8 pp.
CODEN: USXXCO
DT Patent
LA English
IC ICM G11B007-24
INCL 430270210; 430270200; 430945000; 428064800
CC 74-12 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 2004142278	A1	20040722	US 2004-755147	20040109
PRAI TW 2003-92100471	A	20030110		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 2004142278	ICM	G11B007-24
	INCL	430270210; 430270200; 430945000; 428064800
	IPCI	G11B0007-24 [ICM,7]
	IPCR	G11B0007-24 [I,A]; G11B0007-24 [I,C*]
	NCL	430/270.210
	ECLA	G11B007/247

OS MARPAT 141:148178
GI

/ Structure 6 in file .gra /

AB An ***optical*** recording ***medium*** dye is ***disclosed*** . The ***optical*** recording ***medium*** dye comprises the following chem. structure I (A, B = H, halogen, nitrogen-contg. group, alkoxyl group; R1,2 = alkyl group, alkenyl group, aralkyl group, alkoxycarbonyl group, alkoxycarboxyl group, alkoxyl group, alkyl hydroxyl group, alkylamino group, alkylcarbamoyl group, alkylsulfamoyl group, alkylalkoxyl group, alkyl halide group, alkylsulfonyl group, alkylcarboxyl group; and X - = an anion).
ST ***optical*** recording ***medium*** cyanine dye
IT Cyanine dyes
Optical ***disks***
Optical recording materials
(***optical*** recording ***medium*** contg. cyanine dye)
IT ***726185-74-6P*** ***726185-78-0P***
RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(***optical*** recording ***medium*** contg. cyanine dye)
IT ***189189-12-6*** ***726185-79-1*** ***726185-81-5***
726185-82-6 ***726185-84-8*** ***726185-86-0***
726185-88-2 ***726185-90-6***
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(***optical*** recording ***medium*** contg. cyanine dye)
IT ***17084-13-8*** , Potassium hexafluorophosphate ***726185-72-4***
726185-75-7 ***726185-76-8***
RL: RCT (Reactant); RACT (Reactant or reagent)
(***optical*** recording ***medium*** contg. cyanine dye)

L8 ANSWER 8 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:473142 CAPLUS <<LOGINID::20060705>>
DN 141:44682
ED Entered STN: 11 Jun 2004
TI ***Optical*** recording ***medium*** containing trimethine cyanine dyes for DVDs
IN Yeh, Sue-Min; Chang, Kao-Ming; Chiu, Wen-Pin; Huang, Chiung-Man
PA CMC Magnetics Corporation, Taiwan
SO U.S. Pat. Appl. Publ., 21 pp.
CODEN: USXXCO
DT Patent
LA English
IC ICM B32B003-02
INCL 428064400; 428694000ML
CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004109973	A1	20040610	US 2002-309648	20021204
	US 6835433	B2	20041228		
	CN 1505022	A	20040616	CN 2003-141278	20030603
	JP 2004181936	A2	20040702	JP 2003-288297	20030806
PRAI	US 2002-309648	A	20021204		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 2004109973	ICM	B32B003-02
	INCL	428064400; 428694000ML
	IPCI	B32B0003-02 [ICM,7]
	IPCR	B32B0027-00 [I,A]; B32B0027-00 [I,C*]
	NCL	428/817.000
	ECLA	B32B027/00; G11B007/247
CN 1505022	IPCI	G11B0007-24 [ICM,7]; C09B0023-00 [ICS,7]
	IPCR	B32B0027-00 [I,A]; B32B0027-00 [I,C*]
	ECLA	B32B027/00; G11B007/247
JP 2004181936	IPCI	B41M0005-26 [ICM,7]; G11B0007-24 [ICS,7]; C09B0023-00 [ICS,7]
	IPCR	B32B0027-00 [I,A]; B32B0027-00 [I,C*]
	FTERM	2H111/EA03; 2H111/EA12; 2H111/EA22; 2H111/EA25; 2H111/EA43; 2H111/FB43; 2H111/FB60; 4H056/CA01; 4H056/CC02; 4H056/CC08; 4H056/CE03; 4H056/DD03; 4H056/FA06; 5D029/JA04; 5D029/JB47; 5D029/JC03

AB An ***optical*** recording ***medium*** for recordable DVDs is

provided on a substrate with a recording layer. The recording layer comprises at least one kind of the trimethine-cyanine dyes and an additive, wherein the additive has a larger absorbability at the wavelength of laser beam.

ST ***optical*** recording ***disk*** DVD trimethine cyanine dye visible absorption

IT Cyanine dyes
Optical absorption
Optical ***disks***
Optical recording
(***optical*** recording ***medium*** contg. trimethine cyanine dye)

IT 145818-06-0 ***189189-12-6*** 356062-63-0 701915-94-8
701915-96-0 701915-98-2
RL: DEV (Device component use); USES (Uses)
(***optical*** recording ***medium*** contg. trimethine cyanine dye)

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Yeh; US 20040043179 A1 2004 CAPLUS

L8 ANSWER 9 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:1007694 CAPLUS <<LOGINID::20060705>>

DN 140:50346

ED Entered STN: 28 Dec 2003

TI ***Optical*** recording ***medium*** and method for making the same

IN Liu, Wen-Dar; Wang, Nae-Jen; Chen, Wan-Chun; Lin, Biing-Hwang; Chen, Hui-Jen; Kuo, Hsin-Te

PA Taiwan

SO U.S. Pat. Appl. Publ., 13 pp.
CODEN: USXXCO

DT Patent

LA English

IC ICM G11B007-24

INCL 430270110; 430270140; 430270160

CC 74-12 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003235783	A1	20031225	US 2002-264472	20021003
	TW 594717	B	20040621	TW 2002-91112983	20020612
	JP 2004058658	A2	20040226	JP 2003-156890	20030602
	JP 3682055	B2	20050810		
PRAI	TW 2002-91112983	A	20020612		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 2003235783	ICM	G11B007-24
	INCL	430270110; 430270140; 430270160
	IPCI	G11B0007-24 [ICM,7]
	IPCR	G11B0007-26 [N,A]; G11B0007-26 [N,C*]
	NCL	430/270.110
	ECLA	G11B007/246; G11B007/247; G11B007/249
TW 594717	IPCI	G11B0007-24 [ICM,7]
	ECLA	G11B007/246; G11B007/247; G11B007/249
JP 2004058658	IPCI	B41M0005-26 [ICM,7]; G11B0007-24 [ICS,7]; G11B0007-26 [ICS,7]; C09B0023-00 [ICS,7]; C09B0045-00 [ICS,7]
	IPCR	G11B0007-26 [N,A]; G11B0007-26 [N,C*]
	FTERM	2H111/EA40; 2H111/EA41; 2H111/FA01; 2H111/FA12; 2H111/FA14; 2H111/FA31; 2H111/FB42; 2H111/FB43; 2H111/GA07; 4H056/CA01; 4H056/CC02; 4H056/CC08; 4H056/CE03; 4H056/CE06; 4H056/DD03; 4H056/DD19; 4H056/FA06; 5D029/JA04; 5D121/AA01; 5D121/EE22; 5D121/EE28; 5D121/GG16

OS MARPAT 140:50346

GI

/ Structure 7 in file .gra /

AB A method for fabricating an ***optical*** recording ***medium*** is provided. A dye layer is formed on a molded substrate by spin-coating. A reflection layer is formed on the dye layer by sputtering so that the ***optical*** ***disk*** has enough reflection rate. The dye layer comprises a cyanine type dye and an azo metal chelate compd. selected from the formula I (M = metal ion; R1 =H, C1-6 alkyl, amino group, alkyl amino group, toluidinyl group; R2 = H, hydroxyl group, halogen atom, ether group, ester group, C1-6 alkyl; R3 = H, C1-6 alkyl; R4 = H, halogen atom, C1-6 alkyl; A1 = heterocyclic deriv. group constituted by carbon atoms and nitrogen atoms).
ST ***optical*** recording material ***disk***
IT ***Optical*** ***disks***
Optical recording materials
(***optical*** recording ***medium*** and method for making same)
IT Cyanine dyes
(***optical*** recording ***medium*** contg.)
IT 636603-35-5D, complex with Ni
RL: TEM (Technical or engineered material use); USES (Uses)
(azo metal chelate compd.; ***optical*** recording ***medium*** contg.)
IT 123071-50-1 ***189189-12-6*** 215370-77-7
RL: TEM (Technical or engineered material use); USES (Uses)
(cyanine dye; ***optical*** recording ***medium*** contg.)

L8 ANSWER 10 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2003:471027 CAPLUS <<LOGINID::20060705>>
DN 139:44265
ED Entered STN: 20 Jun 2003
TI Write-once read-many ***optical*** recording ***media*** and method for recording using the same
IN Tomura, Tatsuya; Sato, Tsutomu; Ueno, Yasunobu; Noguchi, Shu
PA Ricoh Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM G11B007-24
ICS B41M005-26; G11B007-005
CC 74-12 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 41
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003173567	A2	20030620	JP 2001-372161	20011206

PRAI JP 2001-372161 20011206
CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2003173567	ICM	G11B007-24
	ICS	B41M005-26; G11B007-005
	IPCI	G11B0007-24 [ICM,7]; B41M0005-26 [ICS,7]; G11B0007-005 [ICS,7]; G11B0007-00 [ICS,7,C*]
	IPCR	B41M0005-26 [I,A]; B41M0005-26 [I,C*]; G11B0007-00 [I,C*]; G11B0007-005 [I,A]; G11B0007-24 [I,A]; G11B0007-24 [I,C*]

AB The title recording medium has guide grooves of 0.64-0.8 .mu.m track pitch and a recording layer contg. .gtoreq.2 kinds of org. dyes, and may have a reflective layer and a reflective layer on a substrate having 4-96 T frequency wobbles, wherein the org. dyes have 0-60.degree. C difference of decompn. starting temp. The medium is suitable for using short wavelength semiconductor ***laser*** beams and efficiently uses ***disk*** space without generating faulty recording nor reading data.
ST ***optical*** recording ***media***
IT ***Optical*** ***disks***
(DVD-R; write-once read-many ***optical*** recording ***media*** and method for recording using the same)
IT Dyes

(org.; write-once read-many ***optical*** recording ***media*** and method for recording using the same)
IT ***Optical*** ***disks***
(write-once read-many; write-once read-many ***optical*** recording ***media*** and method for recording using the same)
IT ***189189-12-6*** 331980-41-7 464170-18-1 544409-67-8
544409-68-9 544409-69-0
RL: TEM (Technical or engineered material use); USES (Uses)
(org. dye in recording layer)

L8 ANSWER 11 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2003:221192 CAPLUS <<LOGINID::20060705>>
DN 138:409264
ED Entered STN: 21 Mar 2003
TI Thermal and optical properties of organic dyes for super-resolution recordable disks
AU Chiang, Hao-Hsien; Hsu, Wei-Chih; Tsai, Song-Yeu; Tseng, Mei-Rurng; Hsu, Shih-Peng; Hung, Tien-Tsan; Chang, Chin-Jung; Kuo, P. C.
CS Materials Research Laboratories, Industrial Technology Research Institute, Hsinchu, 31015, Taiwan
SO Japanese Journal of Applied Physics, Part 1: Regular Papers, Short Notes & Review Papers (2003), 42(2B), 997-999
CODEN: JAPNDE
PB Japan Society of Applied Physics
DT Journal
LA English
CC 74-12 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
AB We have studied the characteristics of super resoln. ***optical*** ***disks*** with an org. dye used for the recording layer. It was demonstrated that cyanine dyes with either high decompn. temp. or low absorption show good readout durability and high carrier-to-noise ratio (CNR).
ST cyanine dye thermal ***optical*** property recordable ***optical*** ***disk*** DVD
IT Erasable ***optical*** ***disks***
Optical properties
Thermal decomposition
(thermal and ***optical*** properties of org. dyes for super-resoln. recordable disks)
IT ***189189-12-6*** 354540-18-4 440646-02-6 440646-04-8
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(dye material; thermal and optical properties of org. dyes for super-resoln. recordable disks)
IT 7440-36-0, Antimony, properties
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(mask layer; thermal and optical properties of org. dyes for super-resoln. recordable disks)
IT 109371-84-8, Silicon nitride (Si0-1N0-1)
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(protection layer; thermal and optical properties of org. dyes for super-resoln. recordable disks)
IT 7440-57-5, Gold, properties
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(reflective layer; thermal and optical properties of org. dyes for super-resoln. recordable disks)
RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Dong, X; Proc SPIE 2001, V4085, P162 CAPLUS
(2) Fuji, H; 12th Symp Phase Change Optical Information Storage (PCOS2000) P27
(3) Hatakeyama, M; Jpn J Appl Phys 2000, V39, P752 CAPLUS
(4) Hsu, W; Tech Dig Optical Data Storage Topical Meet 2001, P332
(5) Kasami, Y; Jpn J Appl Phys 1996, V35, P423 CAPLUS
(6) Kikukawa, T; Tech Dig Optical Data Storage Topical Meet 2001, P133
(7) Kuroda, M; Int Symp Optical Memory 1995, We-C1, P23
(8) Liu, W; Appl Phys Lett 2001, V78, P685 CAPLUS
(9) Shintani, T; Jpn J Appl Phys 1999, V38, P1656 CAPLUS
(10) Suzuki, Y; Jpn J Appl Phys 2001, V40, P1588 CAPLUS

(11) Tominaga, J; Appl Phys Lett 1998, V73, P2078 CAPLUS
(12) Tsai, D; Appl Phys Lett 2000, V77, P1413 CAPLUS
(13) Tsai, D; Jpn J Appl Phys 2000, V39, P982 CAPLUS
(14) Yasuda, K; Jpn J Appl Phys 1993, V32, P5210 CAPLUS

L8 ANSWER 12 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2003:150184 CAPLUS <<LOGINID::20060705>>
DN 138:204824
ED Entered STN: 27 Feb 2003
TI Method for selective preparation of aminium and diimonium salts of N,N,N',N'-tetrakis(p-aminophenyl)-p-phenylenediamine as near infrared radiation absorbents
IN Sakai, Hitoshi
PA Nagase Chemtex Corp., Japan
SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C09K003-00
ICS C09B053-00
CC 25-4 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2003055643	A2	20030226	JP 2001-244813	20010810
PRAI JP 2001-244813		20010810		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2003055643	ICM	C09K003-00
	ICS	C09B053-00
	IPCI	C09K0003-00 [ICM,7]; C09B0053-00 [ICS,7]
	IPCR	C09B0053-00 [N,A]; C09B0053-00 [N,C*]; C09K0003-00 [I,A]; C09K0003-00 [I,C*]

OS CASREACT 138:204824; MARPAT 138:204824
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Near IR radiation absorbents represented by aminium salts (I; R = H, lower alkyl; X = an anion) and aminium salts (II; R, X = same as above; n = 1,2) are selectively and efficiently prepd. by oxidn. reaction of N,N,N',N'-tetrakis(p-aminophenyl)-p-phenylenediamine (III; R = same as above) with acid or its salt with peroxodisulfuric acid or its salt optionally in the presence of a Fe(III) complex. Either I or II is selectively obtained by varying the ratio of the acid added or its salt and peroxodisulfuric acid or its salt to III. The compds. I and II are useful as near IR absorbents for thermal insulation films, sun glass, and an ***optical*** recording ***medium*** . Thus, 1.38 g N,N,N',N'-tetrakis(p-dibutylaminophenyl)-p-phenylenediamine (IV) was dissolved in 15 mL EtOAc, treated with 6 mL MeCN and an soln. of 0.19 g sodium perchlorate and 0.34 g ammonium peroxodisulfate in 6 mL H2O, and stirred at 30.degree. for 3 h wherein the ratio of IV, sodium perchlorate, and ammonium perchlorate was 1:1:1. The reaction mixt. was washed with H2O, concd. under reduced pressure, and treated with n-heptane to give, after filtration of the pptd. crystals and drying, 0.87 g N,N,N',N'-tetrakis(p-dibutylaminophenyl)-p-phenylenediamine aminium monoperchlorate. N,N,N',N'-tetrakis(p-dibutylaminophenyl)-p-phenylenediamine diimonium diperchlorate was obtained by changing the ratio of IV, sodium perchlorate, and ammonium perchlorate to 1:2:2.
ST aminium salt tetrakisaminophenylphenylenediamine prepn near IR radiation absorbent; diimonium salt tetrakisaminophenylphenylenediamine prepn near IR radiation absorbent; oxidn tetrakisaminophenylphenylenediamine peroxodisulfuric acid
IT IR radiation
(near-IR; selective prepn. of aminium and diimonium salts of tetrakis(p-aminophenyl)p-phenylenediamine deriv. as near IR radiation absorbents by oxidn. with acid or its salt with peroxodisulfuric acid or its salt)

IT Oxidation
(selective prepn. of aminium and diimonium salts of tetrakis(p-aminophenyl)p-phenylenediamine deriv. as near IR radiation absorbents by oxidn. with acid or its salt with peroxodisulfuric acid or its salt)

IT 4182-80-3, N,N,N',N'-Tetrakis(p-dibutylaminophenyl)-p-phenylenediamine 7601-89-0, Sodium perchlorate 13755-29-8, Sodium tetrafluoroborate 16925-25-0, Sodium hexafluoroantimonate ***17084-13-8*** , Potassium hexafluorophosphate
RL: RCT (Reactant); RACT (Reactant or reagent)
(selective prepn. of aminium and diimonium salts of tetrakis(p-aminophenyl)p-phenylenediamine deriv. as near IR radiation absorbents by oxidn. with acid or its salt with peroxodisulfuric acid or its salt)

IT 7727-54-0 85959-68-8 111687-36-6, 1,3-Diaminopropanetetraacetic acid iron(III) ammonium salt
RL: RGT (Reagent); RACT (Reactant or reagent)
(selective prepn. of aminium and diimonium salts of tetrakis(p-aminophenyl)p-phenylenediamine deriv. as near IR radiation absorbents by oxidn. with acid or its salt with peroxodisulfuric acid or its salt)

IT 5496-71-9P 51302-28-4P 88358-74-1P 88358-75-2P 106152-89-0P 152340-27-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(selective prepn. of aminium and diimonium salts of tetrakis(p-aminophenyl)p-phenylenediamine deriv. as near IR radiation absorbents by oxidn. with acid or its salt with peroxodisulfuric acid or its salt)

L8 ANSWER 13 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2002:301690 CAPLUS <<LOGINID::20060705>>
DN 136:332837
ED Entered STN: 23 Apr 2002
TI ***Optical*** recording ***media*** with excellent light resistance and storage stability and optical recording method using them
IN Tomura, Tatsuya; Azuma, Yasuhiro; Sato, Tsutomu; Sasa, Noboru; Ueno, Yasunobu
PA Ricoh Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 19 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM B41M005-26
ICS C07D487-22; C09B023-00; C09B045-01; C09B047-00; C09B047-04; C09B053-02; G11B007-0045; G11B007-24
CC 74-12 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2002120457	A2	20020423	JP 2000-313993	20001013
PRAI JP 2000-313993		20001013		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2002120457	ICM	B41M005-26
	ICS	C07D487-22; C09B023-00; C09B045-01; C09B047-00; C09B047-04; C09B053-02; G11B007-0045; G11B007-24
	IPCI	B41M0005-26 [ICM,7]; C07D0487-22 [ICS,7]; C07D0487-00 [ICS,7,C*]; C09B0023-00 [ICS,7]; C09B0045-01 [ICS,7]; C09B0045-00 [ICS,7,C*]; C09B0047-00 [ICS,7]; C09B0047-04 [ICS,7]; C09B0053-02 [ICS,7]; C09B0053-00 [ICS,7,C*]; G11B0007-0045 [ICS,7]; G11B0007-00 [ICS,7,C*]; G11B0007-24 [ICS,7]
	IPCR	B41M0005-26 [I,A]; B41M0005-26 [I,C*]; C07D0487-00 [I,C*]; C07D0487-22 [I,A]; C09B0023-00 [I,A]; C09B0023-00 [I,C*]; C09B0045-00 [I,C*]; C09B0045-01 [I,A]; C09B0047-00 [I,A]; C09B0047-00 [I,C*]; C09B0047-04 [I,A]; C09B0047-04 [I,C*]; C09B0053-00 [I,C*]; C09B0053-02 [I,A]; G11B0007-00 [I,C*]; G11B0007-0045 [I,A]; G11B0007-24 [I,A]; G11B0007-24 [I,C*]

OS MARPAT 136:332837
AB The medium has a substrate, a recording layer, and optionally a reflection layer, a protection layer, and a 2nd substrate, wherein the recording layer contains .gtoreq.1 X- and Y-substituted tetraazaporphyrin compds. (X = H, halo, alkyl, cycloalkyl, Ph, alkoxy, phenyloxy; Y = H, halo, 5-membered heterocyclic group including .gtoreq.1 N bonded to tetraazaporphyrin ring; M = divalent metal, tri- or tetravalent substituted metal, oxidized metal, 2 H atoms) and a metal complex showing light absorption at a wavelength region higher than that of the tetraazaporphyrin compds. and no light absorption in the input/output wavelength region. The method is characterized in that (A) the input wavelength is set at 720-660 nm or (B) the input wavelength is set at 810-770 nm and the output wavelength is set at 810-770 and 720-660 nm. The method enables to use the CD-R input/output system for DVD-R.
ST ***optical*** recording ***medium*** CDR light resistance; tetraazaporphyrin aminium ***optical*** ***disk*** storage stability; rewritable ***optical*** ***disk*** DVD recording method
IT Erasable ***optical*** ***disks***
Optical recording materials
(***optical*** ***disks*** with good light resistance and storage stability for high d. recording)
IT Acrylic polymers, uses
RL: DEV (Device component use); USES (Uses)
(protection layer; ***optical*** ***disks*** with good light resistance and storage stability for high d. recording)
IT Cyanine dyes
(recording layer; ***optical*** ***disks*** with good light resistance and storage stability for high d. recording)
IT Polycarbonates, uses
RL: DEV (Device component use); USES (Uses)
(substrate; ***optical*** ***disks*** with good light resistance and storage stability for high d. recording)
IT 4263-38-1 53128-42-0 110993-04-9 118368-11-9 162763-45-3
189189-12-6 197768-46-0 197925-32-9 203930-35-2
412316-36-0 412316-37-1 412912-61-9 412912-62-0 412912-63-1
412912-64-2 412912-65-3 412912-66-4 412914-86-4 412914-89-7
412914-91-1 412914-93-3
RL: DEV (Device component use); USES (Uses)
(recording layer; ***optical*** ***disks*** with good light resistance and storage stability for high d. recording)
IT 7429-90-5, Aluminum, uses 7440-22-4, Silver, uses 7440-50-8, Copper, uses 7440-57-5, Gold, uses
RL: DEV (Device component use); USES (Uses)
(reflection layer; ***optical*** ***disks*** with good light resistance and storage stability for high d. recording)
IT 9011-14-7, Poly(methyl methacrylate)
RL: DEV (Device component use); USES (Uses)
(substrate; ***optical*** ***disks*** with good light resistance and storage stability for high d. recording)

L8 ANSWER 14 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2002:126304 CAPLUS <<LOGINID::20060705>>
DN 136:191769
ED Entered STN: 19 Feb 2002
TI Optical recording material using indocyanine dye
IN Yano, Toru; Takahata, Yoshinori; Oya, Keiji
PA Asahi Denka Kogyo K. K., Japan
SO Jpn. Kokai Tokkyo Koho, 16 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM B41M005-26
ICS C09B023-00; G11B007-24
CC 74-12 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002052829	A2	20020219	JP 2001-136366	20010507
	TW 591646	B	20040611	TW 2001-90113363	20010601
PRAI	JP 2000-165004	A	20000601		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2002052829	ICM	B41M005-26
	ICS	C09B023-00; G11B007-24
	IPCI	B41M0005-26 [ICM,7]; C09B0023-00 [ICS,7]; G11B0007-24 [ICS,7]
	IPCR	B41M0005-26 [I,A]; B41M0005-26 [I,C*]; C09B0023-00 [I,A]; C09B0023-00 [I,C*]; G11B0007-24 [I,A]; G11B0007-24 [I,C*]
TW 591646	IPCI	G11B0007-24 [ICM,7]; B41M0005-26 [ICS,7]

OS MARPAT 136:191769
GI

/ Structure 8 in file .gra /

AB The optical recording material contains an indocyanine dye I [A, B = (substituted) benzene or naphthalene ring; C = (substituted) 3- to 6-membered ring which may contain O, S, or N; R1-2 = C1-4 alkyl which may form a ring; Q = Q1-2; X = H, halo; Y = org. group; Anm- = m-valent anion; m = 1, 2; p= no. to neutralize the mol]. The material is recordable by 620-830 nm laser beam and useful for DVDR and CDR.
ST optical recording material indocyanine dye; CDR DVDR optical recording material
IT ***Optical*** ROM ***disks***
(***optical*** recording material using indocyanine dye)
IT 400622-53-9P 400622-55-1P 400622-58-4P 400622-61-9P 400622-64-2P 400622-67-5P
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(optical recording material using indocyanine dye)
IT 400622-70-0 400622-73-3
RL: TEM (Technical or engineered material use); USES (Uses)
(optical recording material using indocyanine dye)
IT 102-52-3, 1,1,3,3-Tetramethoxypropane 541-28-6, Isoamyl iodide 823-76-7, Acetylcyclohexane 2243-57-4, 2-Naphthylhydrazine 7601-89-0, Sodium perchlorate ***17084-13-8*** , Potassium hexafluorophosphate 30834-75-4 36595-99-0, Isoamyl benzenesulfonate 72444-54-3 205178-82-1 226956-53-2 400622-75-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of indocyanine dye)

L8 ANSWER 15 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2001:842207 CAPLUS <<LOGINID::20060705>>
DN 135:378802
ED Entered STN: 20 Nov 2001
TI Optical recording materials and laser-writable optical recording apparatus
IN Oya, Keiji; Tomita, Atsuo; Ida, Tomonori
PA Asahi Denka Kogyo K. K., Japan
SO Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM B41M005-26
ICS G11B007-24; C09B023-00
CC 74-12 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 41
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2001322354	A2	20011120	JP 2000-143038	20000516
PRAI JP 2000-143038		20000516		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2001322354	ICM	B41M005-26
	ICS	G11B007-24; C09B023-00
	IPCI	B41M0005-26 [ICM,7]; G11B0007-24 [ICS,7]; C09B0023-00 [ICS,7]

IPCR B41M0005-26 [I,A]; B41M0005-26 [I,C*]; C09B0023-00 [N,A]; C09B0023-00 [N,C*]; G11B0007-24 [I,A]; G11B0007-24 [I,C*]

OS MARPAT 135:378802

GI

/ Structure 9 in file .gra /

AB The materials comprise I (R1-2 = C1-4 alkyl; Y = H, halogen, C1-10 alkyl which may form ether bond, aryl, C1-4 alkoxy; Anm- = anion of valence m; l = 1-4; m= 1, 2; p = coeff. for neutralization of charge). Optical recording app. having a thin layer of the above stated material is also claimed. Preferably, information is recordable and readable with laser beam of 770-830 nm. The materials are suitable for use in recordable compact disks.

ST optical recording material benzindolenine cyanine dye; compact disk recordable cyanine dye

IT ***Optical*** ***disks*** (***laser*** writable; recordable compact ***disks*** with recording layers contg. benzindolenine-contg. cyanine dyes)

IT Cyanine dyes
Optical recording materials
(recordable compact ***disks*** with recording layers contg. benzindolenine-contg. cyanine dyes)

IT 374553-16-9P 374553-18-1P 374553-19-2P
RL: DEV (Device component use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)
(recordable compact disks with recording layers contg. benzindolenine-contg. cyanine dyes)

IT 102-52-3, 1,1,3,3-Tetramethoxypropane 7601-89-0, Sodium perchlorate 10602-37-6, 1,1,3,3-Tetraethoxy-2-methylpropane ***17084-13-8*** , Potassium hexafluorophosphate 374553-21-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(recordable compact disks with recording layers contg. benzindolenine-contg. cyanine dyes)

L8 ANSWER 16 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2001:185208 CAPLUS <<LOGINID::20060705>>

DN 134:229761

ED Entered STN: 16 Mar 2001

TI ***Optical*** recording ***medium***

IN Kosuda, Atsuko; Shinkai, Masahiro

PA TDK Electronics Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM G11B007-24
ICS G11B007-24; B41M005-26

CC 74-12 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 41, 56

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001067732	A2	20010316	JP 1999-247997	19990901

PRAI JP 1999-247997 19990901

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2001067732	ICM	G11B007-24
	ICS	G11B007-24; B41M005-26
	IPCI	G11B0007-24 [ICM,7]; G11B0007-24 [ICS,7]; B41M0005-26 [ICS,7]
	IPCR	B41M0005-26 [I,A]; B41M0005-26 [I,C*]; G11B0007-24 [I,A]; G11B0007-24 [I,C*]

AB The ***optical*** recording ***medium*** has a light-reflecting layer on a recording layer contg. an org. dye, wherein the recording layer contains a cyanine dye as an org. dye and the light-reflecting layer is based on a Ag alloy cong. Cu and Pd .ltoreq.2 at.%, resp. The recording

layer may contain a cyanine dye and a salt-forming dye such as a product between a cationic cyanine dye and an azo metal complex anion. The use of the org. dye enabled recording and reading at 600-680 nm. The use of the Ag alloy provided corrosion resistance.

ST optical recording material cyanine dye azo metal complex

IT Cyanine dyes
Optical recording materials
(***optical*** recording ***medium*** contg. cyanine dye in recording layer)

IT ***189189-12-6*** 215370-93-7 283174-52-7 329772-10-3 329772-11-4 329772-12-5
RL: DEV (Device component use); USES (Uses)
(***optical*** recording ***medium*** contg. cyanine dye in recording layer)

L8 ANSWER 17 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2000:865299 CAPLUS <<LOGINID::20060705>>
DN 134:49271
ED Entered STN: 12 Dec 2000
TI Optical recording materials for recordable digital versatile disks
IN Yashiro, Toru
PA Ricoh Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM B41M005-26
ICS G11B007-24
CC 74-12 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000343819	A2	20001212	JP 1999-157092	19990603

PRAI JP 1999-157092 19990603

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2000343819	ICM	B41M005-26
	ICS	G11B007-24
	IPCI	B41M0005-26 [ICM,7]; G11B0007-24 [ICS,7]
	IPCR	B41M0005-26 [I,A]; B41M0005-26 [I,C*]; G11B0007-24 [I,A]; G11B0007-24 [I,C*]

OS MARPAT 134:49271

AB The recording layer of the material mainly (A) consists of an org. material giving films of 2.6 > n > 2.0 and 0.08 .gtoreq.k at 635 nm and an org. material giving films of 2.8 > n > 2.0 and 0.5 > k .gtoreq. 0.1 at 635 nm or (B) consists of an org. material giving films of 2.4 > n > 1.8 and 0.04 .gtoreq.k at 650 nm and an org. material giving films of 2.6 > n > 1.8 and 0.2 > k .gtoreq. 0.05 at 650 nm. Markush structures for asym. and sym. trimethinecyanine dyes, suitable for use in the recording layers, are given.

ST ***optical*** recording ***disk*** trimethinecyanine dye; sym trimethinecyanine dye DVD; asym trimethinecyanine dye DVD; recordable digital versatile disk recording layer

IT Cyanine dyes
(recordable digital versatile disks with recording layers contg. asym. and sym. trimethinecyanine dyes)

IT ***Optical*** ***disks***
(recordable; recordable digital versatile ***disks*** with recording layers contg. asym. and sym. trimethinecyanine dyes)

IT 74276-27-0 ***189189-12-6*** 215370-93-7 302345-74-0 312583-14-5
RL: DEV (Device component use); USES (Uses)
(recordable digital versatile disks with recording layers contg. asym. and sym. trimethinecyanine dyes)

L8 ANSWER 18 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2000:732915 CAPLUS <<LOGINID::20060705>>
DN 133:303637
ED Entered STN: 17 Oct 2000
TI Substituted indolenine-type cyanine dyes and ***laser*** -writable ***optical*** recording ***media*** containing them

IN Tominaga, Nobuhide; Ohya, Keiji; Tomita, Atsuo; Yano, Toru
PA Asahi Denka Kogyo K. K., Japan
SO Jpn. Kokai Tokkyo Koho, 8 pp.
    CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM B41M005-26
    ICS G11B007-24
CC 74-12 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
    Section cross-reference(s): 41
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000289335	A2	20001017	JP 1999-99316	19990406
PRAI	JP 1999-99316		19990406		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2000289335	ICM	B41M005-26
	ICS	G11B007-24
	IPCI	B41M0005-26 [ICM,7]; G11B0007-24 [ICS,7]
	IPCR	B41M0005-26 [I,A]; B41M0005-26 [I,C*]; G11B0007-24 [I,A]; G11B0007-24 [I,C*]

OS MARPAT 133:303637
GI

/ Structure 10 in file .gra /

AB The dyes, showing excellent lightfastness, high sensitivity, and good soly. to solvents, are represented by I [m = 0-2; n = 1-3; l = 0, 1; R1 = C1-4 alkylene; R2 = (substituted) Ph, cyclohexyl, C1-4 alk(en)yl, H; An- = anion].
ST laser recording cyanine dye indolenine deriv; lightfastness sensitivity indolenine cyanine dye
IT Cyanine dyes
    Optical ***disks***
    Optical recording materials
    (***laser*** -writable ***optical*** ***disk*** contg. substituted indolenine-type cyanine dyes showing high sensitivity)
IT 1798-39-6P
    RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
    (in prepn. of substituted indolenine-type cyanine dyes for ***laser*** recording ***media***)
IT 100-16-3, 4-Nitrophenylhydrazine 108-24-7, Acetic acid anhydride 110-86-1, Pyridine, reactions 565-61-7, 3-Methyl-2-pentanone 607-00-1, N,N-Diphenylformamide ***17084-13-8*** , Potassium hexafluorophosphate 100716-80-1, Phenoxyethyl 4-chlorobenzenesulfonate
    RL: RCT (Reactant); RACT (Reactant or reagent)
    (in prepn. of substituted indolenine-type cyanine dyes for ***laser*** recording ***media***)
IT 300822-78-0 300822-89-3 300822-90-6 300822-91-7
    RL: DEV (Device component use); USES (Uses)
    (***laser*** -writable ***optical*** ***disk*** contg. substituted indolenine-type cyanine dyes showing high sensitivity)
IT 300822-80-4P 300822-82-6P 300822-84-8P 300822-86-0P 300822-88-2P
    RL: DEV (Device component use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)
    (***laser*** -writable ***optical*** ***disk*** contg. substituted indolenine-type cyanine dyes showing high sensitivity)

L8 ANSWER 19 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2000:467997 CAPLUS <<LOGINID::20060705>>
DN 133:96856
ED Entered STN: 12 Jul 2000
TI Heat mode type ***optical*** recording ***disk***
IN Kobe, Emiko; Monden, Atsushi
PA TDK Electronics Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 20 pp.

CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM B41M005-26
ICS G11B007-24; C09B023-00; C09B045-00; C09B057-10
CC 74-12 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000190642	A2	20000711	JP 1999-289341	19991012
	JP 3441410	B2	20030902		
PRAI	JP 1998-315391	A	19981019		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2000190642	ICM	B41M005-26
	ICS	G11B007-24; C09B023-00; C09B045-00; C09B057-10
	IPCI	B41M0005-26 [ICM,7]; G11B0007-24 [ICS,7]; C09B0023-00 [ICS,7]; C09B0045-00 [ICS,7]; C09B0057-10 [ICS,7]
	IPCR	C09B0045-00 [I,C*]; C09B0045-14 [I,A]; C09B0069-00 [I,C*]; C09B0069-04 [I,A]; G11B0007-24 [I,C*]; G11B0007-247 [I,A]; G11B0007-249 [I,A]

OS MARPAT 133:96856
GI

/ Structure 11 in file .gra /

AB The invention relates to the ***optical*** recording ***disk*** which shows excellent recording-readout characteristics at .ltoreq.680 nm, wherein the recording layer contains a chelate compd.(s) of dye I (X1, X2 = active H contg. group; R1, R2 = H, alkyl, aralkyl, aryl, alkenyl; R3-5 = H, alkyl, halo, OH, etc.; R6-9 = H, halo, OH, etc.) and metal. The recording layer may addnl. contain a specified trimethine cyanine dye. The ***optical*** recording ***disk*** shows excellent light-resistance and recording-readout characteristics.
ST heat mode ***optical*** recording ***disk*** chelate trimethine cyanine dye
IT ***Optical*** ***disks***
Optical recording materials
(heat mode type ***optical*** recording ***disk*** with excellent light-resistance and recording-readout characteristics)
IT 281208-11-5 281208-12-6 281208-13-7 281208-15-9 281208-16-0 281208-17-1 281208-28-4
RL: DEV (Device component use); USES (Uses)
(chelate compd. in optical recording layer of heat mode type ***optical*** recording ***disk***)
IT 153605-82-4P 281208-10-4P
RL: DEV (Device component use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(chelate compd. in optical recording layer of heat mode type ***optical*** recording ***disk***)
IT 99-57-0, 2-Amino-4-nitrophenol 101-18-8, 3-Hydroxydiphenylamine 1310-73-2, Sodium hydroxide, reactions 7632-00-0, Sodium nitrite 7646-79-9, Cobalt chloride, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of chelate compd. for heat mode type ***optical*** recording ***disk***)
IT ***189189-12-6*** 215370-93-7
RL: DEV (Device component use); USES (Uses)
(trimethine cyanine dye in optical recording layer of heat mode type ***optical*** recording ***disk***)

L8 ANSWER 20 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1998:709002 CAPLUS <<LOGINID::20060705>>
DN 129:349110
ED Entered STN: 09 Nov 1998
TI ***Optical*** recording ***media***
IN Tamura, Shinichiro; Oyamada, Mitsuaki
PA Sony Corporation, Japan

SO PCT Int. Appl., 154 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
IC ICM B41M005-26
ICS G11B007-00
CC 74-12 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9847717	A1	19981029	WO 1998-JP1881	19980423
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
JP 2001328350	A2	20011127	JP 1997-106417	19970423
TW 454184	B	20010911	TW 1998-87106010	19980420
CA 2287346	AA	19981029	CA 1998-2287346	19980423
AU 9870808	A1	19981113	AU 1998-70808	19980423
AU 741970	B2	20011213		
EP 978392	A1	20000209	EP 1998-917657	19980423
EP 978392	B1	20060125		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, FI				
BR 9809774	A	20000620	BR 1998-9774	19980423
AT 316473	E	20060215	AT 1998-917657	19980423
MX 9909314	A	20000228	MX 1999-9314	19991011
US 6727041	B1	20040427	US 2000-403669	20000207
US 2004214107	A1	20041028	US 2004-793352	20040304
US 7008753	B2	20060307		
PRAI JP 1997-106417	A	19970423		
WO 1998-JP1881	W	19980423		
US 2000-403669	A1	20000207		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 9847717	ICM	B41M005-26
	ICS	G11B007-00
	IPCI	B41M0005-26 [ICM,6]; G11B0007-00 [ICS,6]
	IPCR	G11B0007-24 [I,C*]; G11B0007-247 [I,A]
	ECLA	G11B007/247
JP 2001328350	IPCI	B41M0005-26 [ICM,7]; C09B0023-00 [ICS,7]; G11B0007-24 [ICS,7]; C07D0209-14 [ICS,7]; C07D0209-60 [ICS,7]; C07D0209-00 [ICS,7,C*]; C07D0235-20 [ICS,7]; C07D0235-00 [ICS,7,C*]; C07D0277-64 [ICS,7]; C07D0277-00 [ICS,7,C*]; C07D0293-06 [ICS,7]; C07D0293-00 [ICS,7,C*]; C07D0401-06 [ICS,7]; C07D0401-00 [ICS,7,C*]; C07D0403-06 [ICS,7]; C07D0403-00 [ICS,7,C*]; C07D0413-06 [ICS,7]; C07D0413-00 [ICS,7,C*]; C07D0417-06 [ICS,7]; C07D0417-00 [ICS,7,C*]; C07D0471-04 [ICS,7]; C07D0471-00 [ICS,7,C*]
	IPCR	G11B0007-24 [I,C*]; G11B0007-247 [I,A]
TW 454184	IPCI	G11B0007-24 [ICM,7]
	IPCR	G11B0007-24 [I,C*]; G11B0007-247 [I,A]
CA 2287346	IPCI	B41M0005-26 [ICM,6]; G11B0007-00 [ICS,6]
	IPCR	G11B0007-24 [I,C*]; G11B0007-247 [I,A]
AU 9870808	IPCI	B41M0005-26 [ICM,6]; G11B0007-00 [ICS,6]
	IPCR	G11B0007-24 [I,C*]; G11B0007-247 [I,A]
EP 978392	IPCI	B41M0005-26 [I,C]; G11B0007-00 [I,C]; G11B0007-24 [I,C]; B41M0005-26 [I,A]; G11B0007-00 [I,A]; G11B0007-24 [I,A]
	IPCR	G11B0007-24 [I,C*]; G11B0007-247 [I,A]
	ECLA	G11B007/247
BR 9809774	IPCI	B41M0005-26 [ICM,7]
	IPCR	G11B0007-24 [I,C*]; G11B0007-247 [I,A]
AT 316473	IPCI	B41M0005-26 [ICS,7]; G11B0007-00 [ICS,7]; G11B0007-24 [ICS,7]

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                 IPCR   G11B0007-24 [I,C*]; G11B0007-247 [I,A]
                 ECLA   G11B007/247
 MX 9909314      IPCI   B41M0005-26 [ICM,5]; G11B0007-00 [ICS,5]
 US 6727041      IPCI   G11B0007-24 [ICM,7]
                 IPCR   G11B0007-24 [I,C*]; G11B0007-247 [I,A]
                 NCL    430/270.210; 369/288.000; 428/064.800; 430/270.190;
                        430/270.200; 430/945.000
                 ECLA   G11B007/247
 US 2004214107   IPCI   G11B0007-24 [I,A]
                 IPCR   G11B0007-24 [I,C*]; G11B0007-247 [I,A]
                 NCL    430/270.210
                 ECLA   G11B007/247
AB     ***Optical***   recording   ***media***   comprises a base (1), a
     recording layer (2) formed thereon, and a reflecting layer (3) formed on
     the layer (2), wherein the recording layer (2) contains at least one kind
     of specified dyes selected from among polymethine dyes having 1 to 4
     carbon atoms in the main methine chain to secure a sufficient recording
     sensitivity to a light in the red wavelength region.  The   ***optical***
     recording   ***media***   provided sufficient sensitivity in a short
     wavelength region in red, resulting a high degree of signal modulation.
ST     ***optical***   recording   ***medium***   polymethine dye
IT   Cyanine dyes
     Optical recording materials
        (polymethine dye contained in   ***optical***   recording   ***media***
        )
IT   32151-96-5   92479-59-9   167632-34-0   186818-79-1   ***189189-12-6***
     194938-05-1   214706-17-9   215370-77-7   215370-86-8   215370-93-7
     215371-09-8   215371-14-5   215371-22-5   215371-28-1
     RL: DEV (Device component use); USES (Uses)
        (polymethine dye contained in   ***optical***   recording   ***media***
        )
RE.CNT  6     THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Fuji Photo Film Co Ltd; JP 03281287 A 1991 CAPLUS
(2) Matsushita Electric Industrial Co Ltd; JP 02200486 A 1990 CAPLUS
(3) Matsushita Electric Industrial Co Ltd; JP 244524 A 1990
(4) Mitsubishi Paper Mills Ltd; JP 08337728 A 1996 CAPLUS
(5) Ricoh Co Ltd; JP 62268689 A 1987 CAPLUS
(6) Tdk Corp; JP 999642 A 1997

L8   ANSWER 21 OF 23  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   1997:410439  CAPLUS <<LOGINID::20060705>>
DN   127:42388
ED   Entered STN:  03 Jul 1997
TI     ***Optical***   recording   ***disk***   with recording/readout
     capabilities at 630-680 and 780 nm
IN   Shinkai, Masahiro; Kitagawa, Sumiko; Suzuki, Takahiko; Nanba, Noriyoshi
PA   TDK Electronics Co., Ltd., Japan
SO   Jpn. Kokai Tokkyo Koho, 42 pp.
     CODEN: JKXXAF
DT   Patent
LA   Japanese
IC   ICM  B41M005-26
     ICS  G11B007-24
CC   74-12 (Radiation Chemistry, Photochemistry, and Photographic and Other
     Reprographic Processes)
     Section cross-reference(s): 41
FAN.CNT 3
     PATENT NO.          KIND   DATE        APPLICATION NO.         DATE
     ---------------     ----   --------    --------------------    --------
PI   JP 09099642          A2    19970415    JP 1996-206474          19960717
PRAI JP 1995-212343       A     19950728
CLASS
 PATENT NO.      CLASS  PATENT FAMILY CLASSIFICATION CODES
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 JP 09099642     ICM    B41M005-26
                 ICS    G11B007-24
                 IPCI   B41M0005-26 [ICM,6]; G11B0007-24 [ICS,6]
OS   MARPAT 127:42388
AB   The title medium comprises .gtoreq.2 dye-contg. recording layers in which
     at least 2 layers have different optical consts. each other and at least
     one of the 2 layers has a thin film absorption FWHM of .ltoreq.170 nm.
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The dyes may be selected from specified phthalocyanine dyes for recording/readout at 780 nm and specified cyanine dyes for readout at 630-680 nm.

ST ***optical*** recording ***disk*** phthalocyanine cyanine dye

IT ***Optical*** ***disks***
Optical recording materials
(***optical*** recording ***disk*** with recording/readout capabilities at 630-680 and 780 nm)

IT Cyanine dyes
RL: DEV (Device component use); USES (Uses)
(recording layer of ***optical*** recording ***disk*** contg.)

IT 96-76-4, 2,4-Di-tert-butyl-hydroxybenzene 7758-89-6, Copper chloride 13491-79-7, 2-tert-Butylcyclohexanol 51762-67-5, 1,2-Dicyano-3-nitrobenzene
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of phthalocyanine dye)

IT 189189-09-1P, 1,2-Dicyano-3-(2,4-tert-butylphenyloxy)benzene
189189-10-4P, 1,2-Dicyano-3-(2-tert-butylcyclohexyloxy)benzene
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of phthalocyanine dye)

IT 123071-50-1 129863-07-6 130443-50-4 179128-60-0 184900-51-4
186415-91-8 186415-93-0 186416-01-3 186416-03-5 186416-07-9
186416-11-5 186416-32-0 186416-33-1 189101-49-3 189189-03-5
189189-04-6 189189-05-7 189189-06-8 189189-07-9 189189-08-0
189189-11-5 ***189189-12-6*** 190598-73-3 190598-74-4
190598-75-5 190598-76-6 190598-77-7 190598-78-8 190598-79-9
190598-80-2 190598-81-3 190598-83-5 190598-84-6 190598-87-9
190598-88-0 190598-89-1 190598-90-4 190598-91-5 190598-95-9
190598-96-0 190598-97-1 190598-99-3 190599-01-0 190599-03-2
190599-05-4 190599-07-6 190599-08-7 190599-09-8 190599-12-3
190599-14-5 190599-16-7 190599-17-8 190599-19-0
RL: DEV (Device component use); USES (Uses)
(recording layer of ***optical*** recording ***disk*** contg.)

IT 186415-88-3P 186416-14-8P
RL: DEV (Device component use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(recording layer of ***optical*** recording ***disk*** contg.)

IT 190677-64-6
RL: DEV (Device component use); USES (Uses)
(stabilizer; recording layer of ***optical*** recording ***disk*** contg.)

L8 ANSWER 22 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1997:328839 CAPLUS <<LOGINID::20060705>>
DN 126:310467
ED Entered STN: 23 May 1997
TI ***Optical*** recording ***medium*** effecting recording at shorter wavelength region
IN Shinkai, Masahiro; Kitagawa, Sumiko; Suzuki, Takahiko; Nanba, Noryoshi
PA Tdk Electronics Co Ltd, Japan
SO Jpn. Kokai Tokkyo Koho, 33 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM B41M005-26
ICS C09B067-22; G11B007-24
CC 74-12 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 09066671	A2	19970311	JP 1996-158841	19960530
PRAI JP 1995-175523	A	19950619		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 09066671	ICM	B41M005-26
	ICS	C09B067-22; G11B007-24
	IPCI	B41M0005-26 [ICM,6]; C09B0067-22 [ICS,6]; G11B0007-24 [ICS,6]

AB In the title recording medium having a recording layer and a reflective

layer on a substrate, the recording layer contains a dye A which has the real part n in the range of 1.8-2.8 and the imaginary part k .ltoreq.0.15 at the birefringence 780 nm and the half value width of the thin film absorption spectral .ltoreq.170 nm, and contains a dye B which has the real part n in the range of 1.8-2.8 and the imaginary part k .ltoreq.0.2 at the birefringence 630 or 650 nm. The dye A is a specified phthalocyanine dye and the dye B is a specified trimethine cyanine dye.

ST ***optical*** recording ***medium*** phthalocyanine dye; trimethine cyanine dye ***optical*** recording ***medium***

IT Optical recording materials
(contg. phthalocyanine dye and trimethine cyanine dye with specified birefringence characteristics)

IT 123071-50-1 129863-07-6 130443-50-4 186415-91-8 186415-93-0
186416-01-3 186416-11-5 189189-03-5 189189-04-6 189189-05-7
189189-06-8 189189-07-9 189189-08-0 189189-11-5 ***189189-12-6***
189189-14-8 189189-15-9 189189-17-1 189189-19-3 189189-21-7
RL: TEM (Technical or engineered material use); USES (Uses)
(contained in ***optical*** recording ***medium***)

IT 186415-88-3P 186416-14-8P
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(prepd. and contained in ***optical*** recording ***medium***)

IT 189189-09-1P 189189-10-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepd. for prepn. of phthalocyanine dye for ***optical*** recording ***medium***)

IT 96-76-4, 2,4-Di-tert-butyl hydroxy benzene 13491-79-7, 2-tert-Butyl cyclohexanol 51762-67-5, 1,2-Dicyano-3-nitrobenzene
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of phthalocyanine dye for ***optical*** recording ***medium***)

L8 ANSWER 23 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1992:428348 CAPLUS <<LOGINID::20060705>>
DN 117:28348
ED Entered STN: 26 Jul 1992
TI Sulfonium salt catalysts for UV-curable alicyclic epoxy resin compositions as overcoating for ***optical*** ***disks***
IN Endo, Takeshi; Yokoshima, Minoru; Hamatsu, Tomio
PA Nippon Kayaku Co., Ltd., Japan; Sanshin Chemical Industry Co., Ltd.
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C08G059-20
ICS C08G059-68; G11B007-24
CC 38-3 (Plastics Fabrication and Uses)
Section cross-reference(s): 74

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04011625	A2	19920116	JP 1990-113994	19900427

PRAI JP 1990-113994 19900427

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 04011625	ICM	C08G059-20
	ICS	C08G059-68; G11B007-24
	IPCI	C08G0059-20 [ICM,5]; C08G0059-68 [ICS,5]; C08G0059-00 [ICS,5,C*]; G11B0007-24 [ICS,5]

AB The title salts are the (substituted) p-(optionally-alkylated)-hydroxyphenylsulfonium salts (esp. with SbF6, PF6, AsF6 and BF4 groups). A soln. of 100 parts 3,4-epoxycyclohexylmethyl 3,4-epoxycyclohexanecarboxylate and 0.5 part benzyl-4-hydroxyphenylmethylsulfonium hexafluorophosphate was applied on ***optical*** ***disk*** , and cured with high-pressure Hg lamp at 2000 mJ/cm2 to give a coating which showed no change after 2000 h at 80.degree. and 90% relative humidity.

ST moisture resistant coating epoxy resin; UV curable epoxy resin coating; sulfonium arom catalyst epoxy coating; alicyclic epoxy coating curing catalyst

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IT   Epoxy resins, uses
     RL: USES (Uses)
        (alicyclic, coatings for   ***optical***     ***disks***  , UV-curable,
        hydroxyarene sulfonium salts as curing catalysts for)
IT   Sulfonates
     RL: CAT (Catalyst use); USES (Uses)
        (arene, hydroxy, catalysts, for UV-curable alicyclic epoxy resins for
          ***optical***     ***disk***   coatings)
IT   Coating materials
        (moisture-resistant, for   ***optical***     ***disks***  , UV-curable
        alicyclic epoxy resin-based, hydroxyarenesulfonium salts as catalysts
        for)
IT   Recording apparatus
        (  ***optical***     ***disks***  , coating for, UV-curable alicyclic
        epoxy resin-based, hydroxyarenesulfonium salts as catalysts for)
IT   Crosslinking catalysts
        (photochem., for UV-curable alicyclic epoxy resins for   ***optical***
          ***disk***   coating, hydroxyarene sulfonium salts as)
IT   Acoustic devices
        (records, compact, coating for, UV-curable alicyclic epoxy resin-based,
        hydroxyarene sulfonium salts as catalysts for)
IT   Phenols, compounds
     RL: CAT (Catalyst use); USES (Uses)
        (sulfo, salts, catalysts, for UV-curable alicyclic epoxy resins for
          ***optical***     ***disk***   coatings)
IT   125662-43-3   133152-70-2   133152-90-6   134508-14-8   135691-30-4
     141545-63-3   141896-03-9   141896-04-0   141914-89-8   141914-91-2
     RL: CAT (Catalyst use); USES (Uses)
        (catalysts, for UV-curable alicyclic epoxy resins for   ***optical***
          ***disk***   coatings)
IT   25085-98-7, 3,4-Epoxycyclohexylmethyl 3,4-epoxycyclohexanecarboxylate
     polymer   53895-44-6   142198-81-0
     RL: USES (Uses)
        (coatings for   ***optical***     ***disks***  , UV-curable, arene
        sulfonium salts as catalyst for)
IT   108965-52-2   132733-08-5   133152-68-8   133152-71-3   141545-62-2
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with metal fluoride)
IT   16893-92-8   ***17084-13-8***  , Potassium hexafluorophosphate
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with sulfonium compds.)


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     (FILE 'HOME' ENTERED AT 08:21:49 ON 05 JUL 2006)

     FILE 'REGISTRY' ENTERED AT 08:22:02 ON 05 JUL 2006
L1              STRUCTURE UPLOADED
L2              STRUCTURE UPLOADED

     FILE 'CAPLUS' ENTERED AT 08:22:50 ON 05 JUL 2006
L3            1 S US 2004-0142278/PN

     FILE 'REGISTRY' ENTERED AT 08:23:22 ON 05 JUL 2006

     FILE 'CAPLUS' ENTERED AT 08:23:35 ON 05 JUL 2006
L4              TRA L3 1- RN :       14 TERMS

     FILE 'REGISTRY' ENTERED AT 08:23:35 ON 05 JUL 2006
L5           14 SEA L4

     FILE 'CAPLUS' ENTERED AT 08:23:42 ON 05 JUL 2006
L6          738 S L5
L7        87270 S (OPTICAL OR LASER OR INFORMATION)(5A)(MED? OR DISK? OR DISC?
L8           23 S L6 AND L7

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